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NLT - 5/6/92 P/s advise when  
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Office of the Assistant Secretary of Defense for  
Command, Control, Communications and Intelligence  
Room 3E240, The Pentagon, Washington, D.C. 20301-3040

*Pls for copies of this  
Joanne P. pin,  
Bel Leong-Hong and  
Dennis Shaw, with  
a note that I need  
to discuss the  
memo with them.*

Thursday, May 21, 1992

To: Mr. Denis Brown

From: Paul Strassmann

Subject: Operations Review Data Administration and Software Re-use

I greatly appreciate the opportunity for review of the top priority CIM programs: *Data Administration and Software Re-use*. Please convey my thanks to Dennis Shaw, Jeff Wolfe, Joanne Holmberg and Ravinn Chaat for exceptionally lucid presentations. I was particularly impressed by the advanced work you have taken on in the area of Domain Analysis.

Since the transfer of Data Management and Software Reuse programs to DISA/CIM from the Army sufficient time has passed for an assessment of the progress to date. Therefore, I would appreciate if you could schedule a progress review within a month that would redirect these programs towards short-term deliverables. The purpose of the next review would be to define commitments and measures of accomplishment:

1. Total dollars expended, contract expenses, DISA personnel headcount for each program, FY92 to date, projected FY92 and projected FY93, for each of the two programs. Data be further broken down by elements, to suit your own control methods. However, I am particularly interested in knowing how much of each budget is for operations and how much for overhead and especially in the % of your expenses devoted to exploratory research.
2. % and number of Data definitions and software components (objects) added to inventory, to date, since DISA/CIM assumed responsibility for the two programs. Same information projected for balance of FY92 and 93.
3. Data definitions and software components actually put into use by clients.
4. Schedule milestones, for both programs, showing completing of major tasks that will support your stated missions. I am especially interested in hearing about an accelerated project to demonstrate the utility of both programs in support of DITSO CDA's. We have now four major CDA's under DISA control and we must show what can be achieved and how your proposed practices will benefit our programming staffs. In addition, I would like to see a detailed implementation schedule for applying the data administration and software disciplines to major ongoing programs (SBIS, JCALS, RCAS, CHCS, as well as major CIM migration systems). Specifically, I would like to see migration agreements with respective program managers.
5. Jeff Wolfe highlighted the potential conflicts between the roles of DDRS/DSRS repositories and the I-CASE program. Although this needs

attention policy attention, I would prefer the matter resolved by demonstrating results. For instance, the DITSO Pensacola and Denver CDA's both rely on comprehensive CASE packages. Instead of engaging in arguments, I would like to see a detailed plan how your propose for the DDRS and DSRS to serve the needs of programmers in both locations.

6. Please present demonstrated functional disabilities for both DDRS and DSRS, or, an overwhelming economic case to support your proposal for starting consolidation of both systems into a DRS early in 1993.

7. Please present an action program for dealing with our severe and real problems how to deal with legacy code and legacy data.

8. On an editorial note, I suggest that you reconsider using a logo that shows all other DoD components as satellites in the DISA orbit. I do not think that this is an acceptable symbolic representation.

9. Please provide copies of the high level DoD data model, mentioned in Jeff Wolfe's presentation. I would also like to see agreements for capturing the current extensive IDEF data modeling efforts.

10. Please work with Harry Pontius on revising existing life cycle management policies to require the certification, for MAISRC or IPR milestone reviews, that data management and software re-capture/reuse practices have been applied.

11. Please revise your CDAO logic diagrams for data management to start the sequence with business process redesign rather than with data modeling.

12. Please institute for both the Data Management and Software Re-use programs a management process which will immediately flag to me any hold-ups in further implementation. I was not pleased to hear that we actually stopped critical contractor work because of cash flow. Although I recognize that there were delays in getting CIM cash to DISA, it is my understanding that sufficient advance funds were deposited with your controller by Nat Cavallini not to cause work stoppage on top priority and highly visible efforts.

*Johnnie*

*Conceptual data model for mil pers*

### Summary:

1. The priority for both programs should be in operational support. Your mission is to assist a very large DoD software programming community that is meanwhile proceeding with business-as-is, in total disregard of DISA/CIM. Both programs - Data Administration and Software Re - use have now matured well beyond "proof of concept" during many years of gestation in the Army. Before you undertake major innovations - including the introduction of risky technologies - I expect your operations to rack up a solid record of inventorying DoD data and software assets using tools that you already own, with only the most essential improvements to get the job done.

2. Much of the CIM effort in the next 3-5 years will be in re-engineering and restructuring existing code. Data simplification and data redundancy elimination will be also the primary efforts rather than building new systems. I expect you to come up with a program that takes care of current deficiencies in the existing code and data management practices. That aspect is now totally missing.

I trust that the above commentary will be useful in placing both the Data Administration and Software Reuse program into a sharper focus.

Paul

cc: Dr. Kurt Fischer